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Math worksheet on *'Fraction Manipulation Algebra - Orientation 2 (Level 4)'*. Part of a broader unit on *'Algebra Manipulating Variables - Advanced'*

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1 Solve the fraction for the '?' in terms of the variables and reduce.

$$2a = \frac{2?}{3b}$$

a $\frac{6a \cdot b}{2}$ **b** $\frac{3b}{4a}$ **c** $\frac{2a \cdot b}{6}$ **d** $\frac{b}{a}$ **e** $\frac{3a}{4b}$

2 Solve the fraction for the '?' in terms of the variables and reduce.

$$2a = \frac{2?}{2c}$$

a $\frac{a}{2c}$ **b** $\frac{a \cdot c}{2}$ **c** $\frac{c}{2a}$ **d** $\frac{c}{a}$

3 Solve the fraction for the '?' in terms of the variables and reduce.

$$3a = \frac{3?}{2b}$$

a $\frac{b}{a}$ **b** $\frac{6a \cdot b}{3}$ **c** $\frac{3a}{6b}$ **d** $\frac{b}{18a}$ **e** $\frac{2b}{9a}$

4 Solve the fraction for the '?' in terms of the variables and reduce.

$$4a = \frac{4?}{4b}$$

a $\frac{a}{4b}$ **b** $\frac{a \cdot b}{4}$ **c** $\frac{b}{4a}$

5 Solve the fraction for the '?' in terms of the variables and reduce.

$$4a = \frac{2?}{4c}$$

a $\frac{a}{2c}$ **b** $\frac{c}{a}$ **c** $\frac{c}{2a}$ **d** $\frac{a \cdot c}{2}$

6 Solve the fraction for the '?' in terms of the variables and reduce.

$$2a = \frac{3?}{3c}$$

a $\frac{3c}{6a}$ **b** $\frac{2c}{9a}$ **c** $\frac{6a \cdot c}{3}$

7 Solve the fraction for the '?' in terms of the variables and reduce.

$$3a = \frac{2?}{2c}$$

a $\frac{6a \cdot c}{2}$ **b** $\frac{3c}{4a}$ **c** $\frac{2a}{6c}$ **d** $\frac{2c}{6a}$